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INFORMATION REPORT INFORMATION

CENTRAL INTELLIGENCE AGENCY

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- 1. The Plastics Institute (Instytut Tworzyw Sztuczych) is located 50X1-HUM in Warsaw, at No. 8 Lacquosci Street. It is housed in one building. The administration of the Institute is located elsewhere, in the building which houses the administrations of all the institutes which are subordinate to the Ministry of Chemicals.
- 2. In 1950 this Institute was organized, from the Institute of
 Industrial Chemistry which, between 1945 and 1950, served the
 needs of the Ministry of Industry and Commerce. This change
 came about at the time of the organization of the new Ministry of
 Chemicals.

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- 3. The Ministry of Chemicals is divided into branches, one of which supervises the plastics and laquers industry. From 1950 to 1954, the Institute was directed by the Technical Department of the Ministry of Chemicals and, from 1954 to 1957, by the Central Directorate of the Plastics and Laquers Industry (Centralny Zarzad Przemyslu Mas Plastycznych 1 Lakierow).
- 4. The Institute is headed by a Director-General and a Director of Scientific Affairs. The former supervises the administration and personnel and the latter, the various departments. Each department is headed by a department head and includes several laboratories which work on various phases of the departments' activities. These departments are:
 - a. the polymerization department,
 - b. the condensation department,
 - c. the converting department,
 - d. the workshops,
 - e. the administration.
- 5. The polymerization department includes laboratories which deal with polyvinyl acetate, polyvinyl alcohol, polyvinyl acetals, epoxides (?) polyesters, etc.
- 6. The condensation department consists of the phenolformal dehyde and aminoplastics laboratories.

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- 7. The converting department engages in the pressing of thermohardenings (thermo-settings?) by extrusion and injection.
- 8. The workshops serve all the departments and are heavily dependent on the equipment of the general workshops which service all the institutes of the chemical industry.
- 9. Besides the above mentioned departments, the Institute also has testing laboratories. (See paragraph 17).
- 10. The Institute is equipped with the usual equipment typical of the plastics industry. A large part of it is equipment acquired in the United States through UNRRA by Prof. Swiderek. The expansion and development plans call for an annual grant for purchasing equipment mainly from Czechoslovakia, the USSR and East Germany. The Institute possesses three presses, one for moulding by extrusion and two, by injection.
- 11. The Institute's personnel numbers about 200, of whom approximately 50 are chemical engineers (graduates of Polish universities), three Docents and three Ph.D's in chemistry. The average age of the professional staff members is around thirty. They are paid according to the general scale of wages in the chemical industry, i.e. from 1,000 to 3,500 zloty per month.
- 12. Each department works on projects of its own. These projects are set out in the annual plan and are decided upon by the

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Technical Department of the Ministry, by the Central Directorate or by the members of the department according to their own particular interests. These projects are of an applied rather than of a pure scientific nature.

- In the line of condensation reactions, a number of phenols were developed for moulding powders, as well as resins for laquers, resins for acid-resistant containers for the chemical and other industries, synthetic glues for the woodworking industry and paper and textile impregnates for construction work and the electrical industry. The work with amino-resins included: urea-formal dehyde and melamine-formal dehyde resins as moulding powders for the electrical and household-wares industries, resins for the textile and paper industries and urea-formal dehyde as a corebinder for foundries. A number of urea-formal dehyde and melamine-formal dehyde resins were developed for the laquer industry.

15.	Much work was done in determining the pressing condition	ons for
	the thermo-hardening (thermo-setting?) resins. In par	ticular,
	the role of flow for attaining various wall thicknesses an	d the role
	of the inherent water content were established. Most of	the
	work done was published in the Przemysl Chemczny" or	the
	East German Kunststoffe. Some work on synthetic glue	50X1-HUM
	the automotive industry,	was
	done. (Note: the thermoplastics field was not so well do	eveloped
	and much less was published on the work done in it. Th	is
	is perhaps due to the overlapping of the work of the Insti	tute with
	the work of both the Institute of Fiber Research and the	
	Institute of Organic Synthesis which were engaged in work	k of
	a similar nature, mamely, the use of thermoplastics as a	aw
	material and its conversion into fibres and mouldable m	aterials.
	It is likely that the other institutes mentioned were more	•
	successful in thermoplastics research and production.)	
16.	At this Institute little original work was done. What little	e was
	done was in the establishment of the proper workin g cor	nditions
	for the indigenous Polish raw materials such as phenols	,

- cresols and xylenols of not-too-high a purity.
- 17. The testing laboratories test mainly the physical, mechanical and, partly, the chemical properties of the materials made

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within the Institute and also of materials from other institutes and from the relevant branches of other industries, particularly the electrical, automotive, textile, paper and wood industries.

No papers were published by the testing laboratories.

- 18. From 1955 1960 the plans for the development of the plastics industry were rather ambitious and called for the enlarging of the Institute. Plans were drawn up for additional buildings, one of which was to be a pilot plant for future development projects. A considerable increase in the personnel was foreseen and facilities were to be created for enabling more of the younger staff members to prepare their doctorate theses.

 The importing of equipment, particularly for the further development of epoxy (?) and polyester resins, was to be stepped up.
- of the Central Directorate. Certain plants in other industries,
 mainly the electrical and insulation industries, availthemselves
 of the services and products offered by the Institute.
- 20. Some of the personalities at the Plastics Institute are as follows:

 a. Brojer (fnu) is a chemist and head of the polymerization

 department.

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 b. Jan Brzezinski is a chemist and is head of the urea-formaldehyde laboratory.

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c.	Dobraczynski, (fnu) is a mechanical engineer and head of 50X1-HUM the converting department.
d.	Wieslaw Holtorp is the director-general of the Institute. 50X1-HUM
е.	Jerzy Iskra is a chemist and head of the glue laboratory. 50X1-HUM
f.	Leszczynska, (fnu) is a member of the administration. 50X1-HUM
g.	Jerzy Pochwalski is a chemist and head of the condensation department. 50X1-HUM
h.	Docent Marek Weinryb is a chemist and director of 50X1-HUM Scientific Affairs at the Institute.
i.	Waclaw Zielinski is a chemist and head of the PVC laboratory. 50X1-HUM
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